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09/493,662

Amendment to the Abstract:

Cancel the present "Abstract of the Disclosure" in page 44 and replace it with the following:

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Abstract of the Disclosure

In an OFDM-based receiver, a time synchronization unit comprising: A. a device for extracting pilot signals contained in the OFDM received signal; B. a device for analyzing the pilot signals in the frequency domain and for issuing a signal indicative of a synchronization error in the received signal; C. a device for correcting the synchronization error, responsive to the signal indicative of the synchronization error. In an OFDM-based receiver, an automatic frequency correction device in a subscriber unit comprising: A. an inner frequency correction loop for generating a LO frequency related to a frequency of a received signal; B. an outer frequency correction loop for correcting the LO frequency according to instructions received from a base station.